

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/529,193
Source: PT/10
Date Processed by STIC: 4/5/05

ENTERED



PCT

RAW SEQUENCE LISTING

DATE: 04/05/2005

PATENT APPLICATION: US/10/529,193

TIME: 13:38:12

Input Set : A:\pto_PB0262.txt

Output Set: N:\CRF4\04052005\J529193.raw

3 <110> APPLICANT: Loukola, Anu-Maria
 4 Penn, Sharron G.
 5 Rank, David R.
 6 Hanzel, David K.
 7 Casey, Graham
 8 Witte, John S.
 10 <120> TITLE OF INVENTION: Detection Methods
 12 <130> FILE REFERENCE: PB0262
 C--> 14 <140> CURRENT APPLICATION NUMBER: US/10/529,193
 C--> 15 <141> CURRENT FILING DATE: 2005-03-24
 17 <150> PRIOR APPLICATION NUMBER: US 60/413,583
 18 <151> PRIOR FILING DATE: 2002-09-25
 20 <150> PRIOR APPLICATION NUMBER: US 60/491,842
 21 <151> PRIOR FILING DATE: 2003-08-01
 23 <160> NUMBER OF SEQ ID NOS: 45
 25 <170> SOFTWARE: PatentIn version 3.1
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 201
 29 <212> TYPE: DNA
 30 <213> ORGANISM: Homo sapiens
 32 <220> FEATURE:
 W--> 33 <221> NAME/KEY: SNP
 34 <222> LOCATION: (101)..(101)
 35 <223> OTHER INFORMATION: Alternative allele: G.
 38 <400> SEQUENCE: 1
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 41 aggcactttc tagaggcatg caggcataga tagccatgtt ctaagagtaa agggcaaccc 120
 43 taagcaaacc tggcatgcta gaaagtcagt ctgcggtctg tggatcacct acatcagatc 180
 45 aaatgccaat tctcagcctc c 201
 48 <210> SEQ ID NO: 2
 49 <211> LENGTH: 201
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Homo sapiens
 53 <220> FEATURE:
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 55 <222> LOCATION: (101)..(101)
 56 <223> OTHER INFORMATION: Alternative allele: T.
 59 <400> SEQUENCE: 2
 60 tgatagaagc caggcttctc acctttgcag aaggagtgca tggattcaga aaggagaaaa 60
 62 actagcatga atcctatgaa attagattgg aatggatgta accgtgtata ttcataccct 120
 64 tgtagataga tagatgggta gatagatgat agataggtaa cagatagatg acagataatg 180
 66 agatagatag atgtaaattg a 201
 69 <210> SEQ ID NO: 3

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70 <211> LENGTH: 201
71 <212> TYPE: DNA
72 <213> ORGANISM: Homo sapiens
74 <220> FEATURE:
W--> 75 <221> NAME/KEY: SNP
76 <222> LOCATION: (101)..(101)
77 <223> OTHER INFORMATION: Alternative allele: T.
80 <400> SEQUENCE: 3
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83 gcactccagt ctgggtgaga gtgagactca gtcttaaaaa aatatgcctt tttgaagcac      120
85 gtacattttg taacaagaa ctgaagctct tattatatta ttagttttga tttaatgttt      180
87 tcagcccatc tcctttcata t                                     201
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93 <213> ORGANISM: Homo sapiens
95 <220> FEATURE:
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97 <222> LOCATION: (101)..(101)
98 <223> OTHER INFORMATION: Alternative allele: G.
101 <400> SEQUENCE: 4
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104 ctccaccagc ctttctagtt gccactgtg tgtacagcac cctggtaggg accagagcca      120
106 tgacagggaa taagactaga ctatgccctt gaggagctca cctctgttca gggaaacagg      180
108 cgtggaaaca caatggtggt a                                     201
111 <210> SEQ ID NO: 5
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113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
116 <220> FEATURE:
W--> 117 <221> NAME/KEY: SNP
118 <222> LOCATION: (101)..(101)
119 <223> OTHER INFORMATION: Alternative allele: T.
122 <400> SEQUENCE: 5
123 ctgtagtcca atagataaag gcaaagagat tagggcattg aattttgttc cttttatcct      60
125 tcaaaagatg cacaaggggc tgctgatctc actgctgtag cggtgctcct tatgcataga      120
127 cctgcccttg ctgagccact ggcctgaaag aggggcaaaa gtcatagaag gaatggcttc      180
129 cagttgagaa ccttgatgtc t                                     201
132 <210> SEQ ID NO: 6
133 <211> LENGTH: 201
134 <212> TYPE: DNA
135 <213> ORGANISM: Homo sapiens
137 <220> FEATURE:
W--> 138 <221> NAME/KEY: SNP
139 <222> LOCATION: (101)..(101)
140 <223> OTHER INFORMATION: Alternative allele: C.
143 <400> SEQUENCE: 6
144 gaactattgg aactgataaa cacattcagt aaagttgcag gatacaaaat cagcatataa      60
146 aatcagtag catttctata tgccaatagt gaacaatctg gcaaaaataa aaaagtaatc      120

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148 ccatttacaa tagccacaaa taaaactaaa tacctagaaa ttaacttaat caaagaagag      180
150 aaaggtctct acaatgaata c                                          201
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154 <211> LENGTH: 201
155 <212> TYPE: DNA
156 <213> ORGANISM: Homo sapiens
158 <220> FEATURE:
W--> 159 <221> NAME/KEY: SNP
160 <222> LOCATION: (101)..(101)
161 <223> OTHER INFORMATION: Alternative allele: T.
164 <400> SEQUENCE: 7
165 ataagtcatt cagtatccac aacacttggga gagaattcaa gagtgatttt aaatttcctt      60
167 tttcaaatac ctctctgtt ttctcttatt tcctttatga cgtctccaaa taagcttcct      120
169 ctaactgccg gcaagtctga ttctattggc ttcgactgtt ttcattccaa ttagaggcag      180
171 ggttaagtac attaaaaata a                                          201
174 <210> SEQ ID NO: 8
175 <211> LENGTH: 201
176 <212> TYPE: DNA
177 <213> ORGANISM: Homo sapiens
179 <220> FEATURE:
W--> 180 <221> NAME/KEY: SNP
181 <222> LOCATION: (104)..(104)
182 <223> OTHER INFORMATION: Alternative allele: T.
185 <400> SEQUENCE: 8
186 aactgcccct aggatccaat catctcctac caggcccccac ctccagtatt ggggattgca      60
188 tttcaacatg agattttggg aggggcacag attcagacca tatcactggc actgtgctaa      120
190 tcagatgaat atcaccagtt ggaaggctag attccacaag aggaggaatg acctggaaat      180
192 tggttcttta gttgtgattc t                                          201
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198 <213> ORGANISM: Homo sapiens
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W--> 201 <221> NAME/KEY: SNP
202 <222> LOCATION: (100)..(100)
203 <223> OTHER INFORMATION: Alternative allele: T.
206 <400> SEQUENCE: 9
207 ggggtcccct tgccaacaga atcacagagg accagcctga aagtgcagag acagcagctg      60
209 aggcacagcc aagagctctg gctgtattaa tgacctaaaga agtcaccaga aagtcagaag      120
211 ggatgacatg cagaggccca gcaatctcag ctaagtcaac tccaccagcc tttctagttg      180
213 cccactgtgt gtacagcacc c                                          201
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217 <211> LENGTH: 201
218 <212> TYPE: DNA
219 <213> ORGANISM: Homo sapiens
221 <220> FEATURE:
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223 <222> LOCATION: (101)..(101)
224 <223> OTHER INFORMATION: Alternative allele: base deleted.

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230 gcctgaggtc aggagttcaa gacaagcctg gcctacatgg ttgaaacccc atctctacta      120
232 aaaatacaca aattagctag gcatggtgga ctgcctgta atctcactac acaggaggct      180
234 gaggcaggag aatcacttga a                                201
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238 <211> LENGTH: 201
239 <212> TYPE: DNA
240 <213> ORGANISM: Homo sapiens
242 <220> FEATURE:
W--> 243 <221> NAME/KEY: SNP
244 <222> LOCATION: (101)..(101)
245 <223> OTHER INFORMATION: Alternative allele: T.
248 <400> SEQUENCE: 11
249 tgggtgtggg agtccaagca agcagagaag gggctcgacgc agaggggtgg cttgcaagag      60
251 cagccagagc ctaaataaggg tatggagaac ccacatgagg cgaggagggc atccatgagt      120
253 gggagggggt gggtgagggt tggctacata aaggggattg atcaaataag taaatgtatt      180
255 aaggatgata gaagccaggc t                                201
258 <210> SEQ ID NO: 12
259 <211> LENGTH: 201
260 <212> TYPE: DNA
261 <213> ORGANISM: Homo sapiens
263 <220> FEATURE:
W--> 264 <221> NAME/KEY: SNP
265 <222> LOCATION: (101)..(101)
266 <223> OTHER INFORMATION: Alternative allele: C.
269 <400> SEQUENCE: 12
270 ttgcatttct ctaatgacca gtgatgatga gcattttttc acatgtctgt tggctgcata      60
272 gatgtcttct tttgagaagt gtctgttcat atcctttgcc tattttttga tggggttggt      120
274 tgcttttttt cttgtaaatt tgtttaagtt cttttagat tctggatgtt agcccttcgt      180
276 cagatggata gattgcaaaa a                                201
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281 <212> TYPE: DNA
282 <213> ORGANISM: Homo sapiens
284 <220> FEATURE:
W--> 285 <221> NAME/KEY: SNP
286 <222> LOCATION: (101)..(101)
287 <223> OTHER INFORMATION: Alternative allele: G.
290 <400> SEQUENCE: 13
291 taactattgg ttctagagag caggactggg cttactccag catactgctt taaatatatc      60
293 catgtctaca tccacttttg tctgtatgtc tatgtatcta tctatgtatc tatctagcta      120
295 tgtatctatc tatctatcta tctatcatct atctatctat ctatcatcta tccatctatc      180
297 atctatcatt tatccatcta t                                201
300 <210> SEQ ID NO: 14
301 <211> LENGTH: 201
302 <212> TYPE: DNA
303 <213> ORGANISM: Homo sapiens
305 <220> FEATURE:

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      307 <222> LOCATION: (101)..(101)
      308 <223> OTHER INFORMATION: Alternative allele: G.
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      314 agactgtcca tataattaaa atgtacaata actaccagg tttaccttgc aagtttcaac      120
      316 atacacaaaa ttaactttat atgactcttc aaaaacagtt tgccatcata cctaataatc      180
      318 tggttttaa tttaaaaact c      201
      321 <210> SEQ ID NO: 15
      322 <211> LENGTH: 201
      323 <212> TYPE: DNA
      324 <213> ORGANISM: Homo sapiens
      326 <220> FEATURE:
W--> 327 <221> NAME/KEY: SNP
      328 <222> LOCATION: (101)..(101)
      329 <223> OTHER INFORMATION: Alternative allele: T.
      332 <400> SEQUENCE: 15
      333 tgcccagagt gtggctttaa aagcttcccc attgcttctc atgtgaagcc aaggttgaga      60
      335 atgactaatt taaggcattt ctggtggata taaaggacta ccacagtcca aggccatcct      120
      337 gactgacctc accttccagg tgccatgctc catccagctg ggctcctttt caacccaatt      180
      339 ataactctat taatgttggt c      201
      342 <210> SEQ ID NO: 16
      343 <211> LENGTH: 201
      344 <212> TYPE: DNA
      345 <213> ORGANISM: Homo sapiens
      347 <220> FEATURE:
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      349 <222> LOCATION: (101)..(101)
      350 <223> OTHER INFORMATION: Alternative allele: A.
      353 <400> SEQUENCE: 16
      354 agagtgtggc tttaaaagct tccccattgc ttctcatgtg aagccaaggt tgagaatgac      60
      356 taatttaagg catttctggt ggatataaag gactaccaca gtccaaggcc atcctgactg      120
      358 acctcacctt ccagggtgct agtccatcc agctgggctc cttttcaacc caattataac      180
      360 tctattaatg ttgttccag c      201
      363 <210> SEQ ID NO: 17
      364 <211> LENGTH: 201
      365 <212> TYPE: DNA
      366 <213> ORGANISM: Homo sapiens
      368 <220> FEATURE:
W--> 369 <221> NAME/KEY: SNP
      370 <222> LOCATION: (101)..(101)
      371 <223> OTHER INFORMATION: Alternative allele: A.
      374 <400> SEQUENCE: 17
      375 taatttaagg catttctggt ggatataaag gactaccaca gtccaaggcc atcctgactg      60
      377 acctcacctt ccagggtgct agtccatcc agctgggctc cttttcaacc caattataac      120
      379 tctattaatg ttgttccag ccaggcatgg tggctcatgc ctgtaatccc agcactttgg      180
      381 gaggccgaag caggcggatc a      201
      384 <210> SEQ ID NO: 18
      385 <211> LENGTH: 201

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/529,193

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Input Set : A:\pto_PB0262.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:39; N Pos. 37334

VERIFICATION SUMMARY

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Input Set : A:\pto_PB0262.txt

Output Set: N:\CRF4\04052005\J529193.raw

L:14 M:270 C: Current Application Number differs, Replaced Current Application Number
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:33 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1
L:54 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2
L:75 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3
L:96 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4
L:117 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5
L:138 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:6
L:159 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:7
L:180 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:8
L:201 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:9
L:222 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:10
L:243 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:11
L:264 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:12
L:285 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:13
L:306 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:14
L:327 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:15
L:348 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:16
L:369 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:17
L:390 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:18
L:411 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:19
L:432 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:20
L:453 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:21
L:474 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:22
L:495 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:23
L:516 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:24
L:537 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:25
L:558 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:26
L:579 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:27
L:600 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:28
L:621 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:29
L:642 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:661 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:31
L:680 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:32
L:701 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:33
L:722 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:34
L:743 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:35
L:768 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:36
L:2066 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:37320
L:5597 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:42
L:5622 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:43
L:5647 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:44
L:5675 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:45